L4 (7.4) Multiplying a Polynomial by a Constant

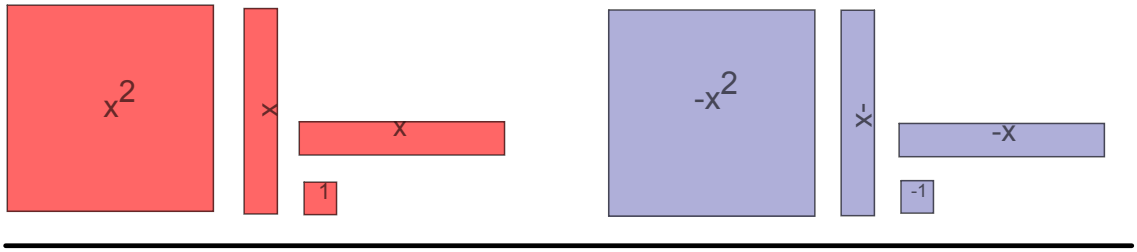
How would we multiply 2 and (3x + 1)?

multiply the 2 with everything in the bracket.

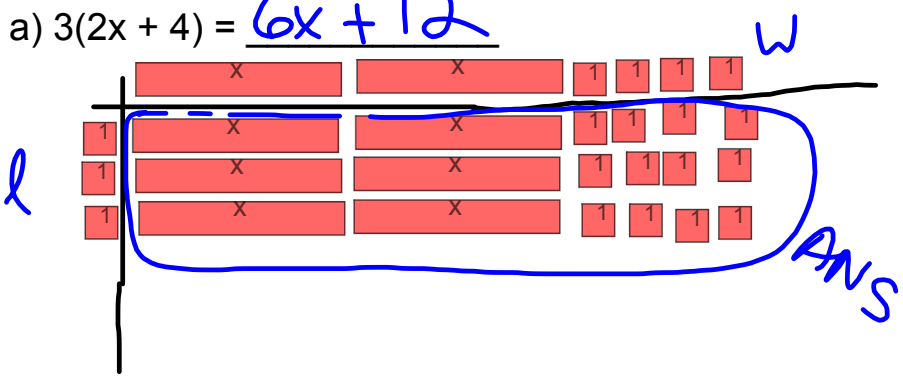
What is the answer?

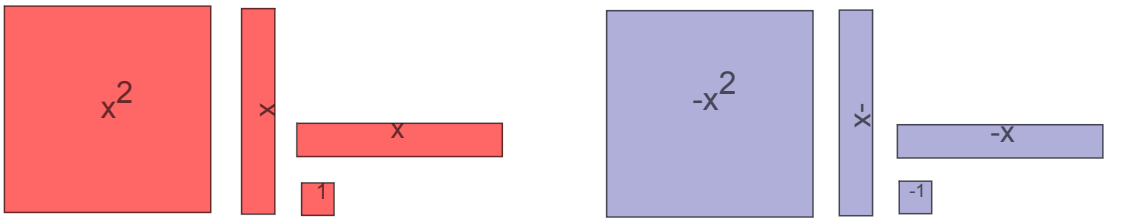
Bunny Hops

$= 2(3x+1)$
$= 6x+2$

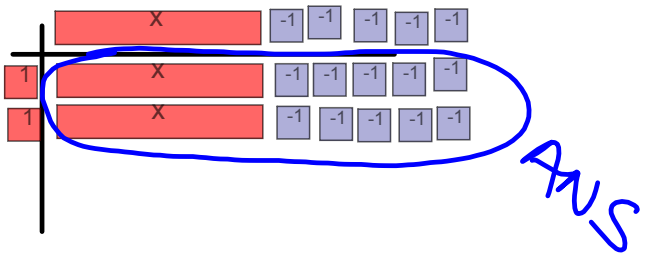


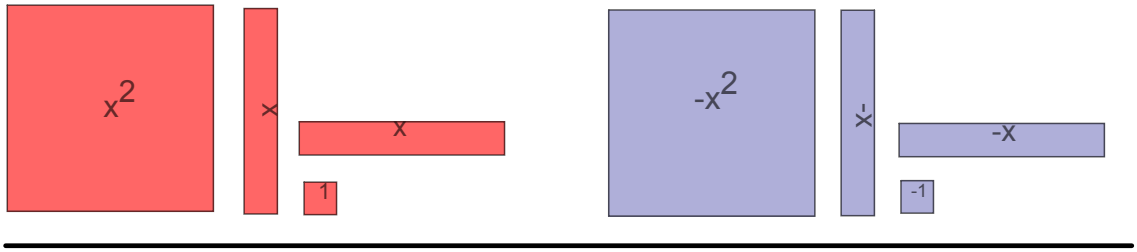
a) 3(2x + 4) = 6x + 12



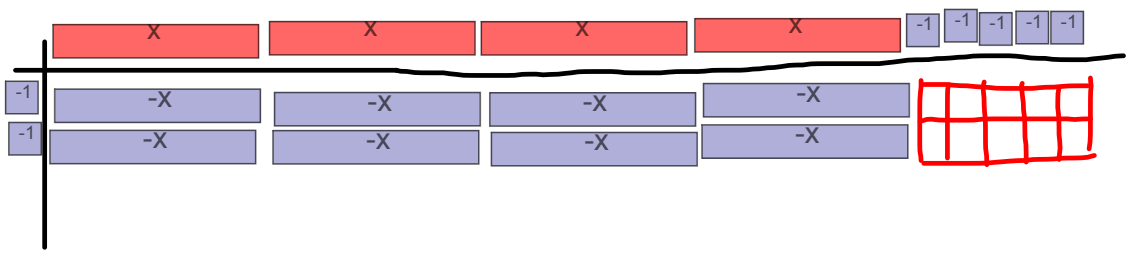


b) 2(x - 5) = 2x − 10





c) -2(4x - 5) = −8x + 10



Ex 2: Find the product without algebra tiles.

a) $2(x - 3)$

$= 2x - 6$

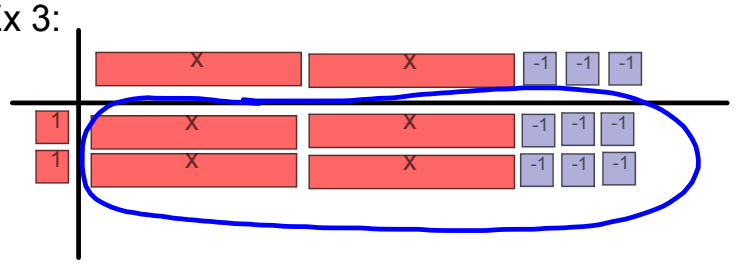
b) $4(2x^2 - 3x + 5)$

$= 8x^2 - 12x + 20$

c) $-5(4 - 3x^2)$

$= -20 + 15x^2$

Ex 3:



Write the product being modelled above.

$= 4x - 6$

Assigned Work:
p.271-272
1bc, 2bc, 3bc, 6, 7, 8